

NPL ABSTRACTS

28/5/18 (Item 1 from file: 23)  
DIALOG(R)File 23: CSA Technology Research Database  
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0013583852 IP Accession No: 201006-71-1582792; 201006-61-1773761; 20091641772; A09-99-1991084

**WS addressing protocol for web services message processing runtime framework**

Savchenko, Vladimir S; Angelov, Dimitar; Baikov, Chavdar S; Videlov, Vladimir  
, USA

**Document Type:** Patent

**Record Type:** Abstract

**Language:** English

**File Segment:** Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

**Abstract:**

A method is described that involves processing a **Web services message** within an object oriented runtime environment. The processing involves executing a plurality of protocols to support a **Web service** that the **message** pertains to. Each one of the protocols perform one or more operations that contribute to a different part of the processing. The executing involves a first of the protocols receiving from an object WS **Addressing** information retrieved from the **message's header**. The executing also involves the first protocol providing the WS **Addressing** information to a second of the protocols. The executing also involves the second protocol providing the WS **Addressing** information to at least one of: a third protocol of the protocols; a component that performs an **endpoint** method of said **Web service**; software that identifies a new transport level destination **address** for said **message**.

**Descriptors:** Messages; Object oriented; Object-oriented programming; Receiving; Computer programs; Message processing; Transport; Software; **Headers**

**Subj Catg:** 71, General and Nonclassified; 61, Design Principles; 99, General

28/5/19 (Item 2 from file: 23)  
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0013420083 IP Accession No: 201005-71-1554021; 201005-61-1718620; 20091609058; A09-99-1967839

**Scheduler supporting web service invocation**

Benedetti, Fabio  
, USA

**Document Type:** Patent

**Record Type:** Abstract

**Language:** English

**File Segment:** Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

**Abstract:**

The present invention proposes a method and a corresponding system for scheduling invocation of **web services** from a central point of control. A scheduler accesses a workload database, which **associates** an execution agent and a descriptor with each submitted job. The descriptor identifies a desired **web service**, an **address** of a corresponding **WSDL** document, and the actual content of a request **message** to be passed to the **web service**. Whenever the job is submitted for execution, the scheduler sends the job's descriptor to the **associated** agent. In response thereto, the agent downloads the **WSDL** document that specifies the structure of the **messages** supported by the **web service**. The scheduler builds a request **message** for the **web service** embedding the desired content into the structure specified in the **WSDL** document. The agent sends the request **message** to an **endpoint** implementing the **web service**, so as to cause its invocation.

**Descriptors:** Messages; Databases; Workload; Inventions; Control systems; Scheduling; Construction specifications; Construction; Downloading; Embedded structures

**Subj Catg:** 71, General and Nonclassified; 61, Design Principles; 99, General

FULL-TEXT NPL

[bad date, fyi]

15/3,K/42 (Item 42 from file: 636)  
DIALOG(R)File 636: Gale Group Newsletter DB(TM)  
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05516512 **Supplier Number:** 98943821 (USE FORMAT 7 FOR FULLTEXT)

**Microsoft, IBM, BEA and TIBCO announce reliable messaging specifications; Publication of WS-ReliableMessaging and WS-Addressing signifies milestone in development of web services architecture.**

M2 Presswire , p NA  
March 19 , 2003

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 1212

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...at most once, at least once or exactly once, as well as in order.

-- **WS-Addressing**. **WS-Addressing**, published by IBM, Microsoft and BEA, provides mechanisms to identify and exchange references to **Web services end points**. In addition, it defines a set of commonly used **message** information **headers**. Together, these elements enable transport-neutral, bidirectional, synchronous, asynchronous and stateful service interactions across networks ...common scenario with examples of real-world applications to identify key requirements that must be **addressed** in the advanced **Web services** architecture. It also introduces the core reliable **messaging** protocol and positions it with other **Web services** specifications such as the WS-Policy and WS-Security families that are ...messaging requirements to increase the number of customer scenarios supported, such as flow control and **metadata** exchange.

About IBM

IBM is the world's largest information technology company, with 80 years...

15/3,K/47 (Item 47 from file: 621)  
DIALOG(R)File 621: Gale Group New Prod.Annou.(R)  
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03377348   **Supplier Number:** 98074216 (USE FORMAT 7 FOR FULLTEXT)  
**OASIS Members Advance Reliable Message Delivery for Web Services; WS-Reliability Specification Submitted to OASIS.**

Business Wire , p 5128  
Feb 26 , 2003

**Language:** English   **Record Type:** Fulltext  
**Document Type:** Newswire ; Trade  
**Word Count:** 909

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...wherever possible so that the results of our work will interoperate and not overlap with **Web services** specifications that are being developed by other open, recognized, standards bodies."

The OASIS Reliable **Messaging** specification will **address message** persistence, acknowledgement and resending, elimination of duplicate **messages**, ordered delivery, and delivery status awareness for sender and receiver applications. It will provide **WSDL** definitions for reliable **messaging**, and the **message** formats will be specified as **SOAP headers** and/or body content.

Members of the OASIS WS-RM Technical Committee include Commerce One

...

15/3,K/51 (Item 51 from file: 9)  
DIALOG(R)File 9: Business & Industry(R)  
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02901083 Supplier Number: 95644978 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Microsoft Debuts WSE 1.0 for Visual Studio.Net Developers.**  
( Web Services Enhancements )

Client Server News , p NA  
December 23, 2002  
**Document Type:** Newsletter; News Brief ( United States )  
**Language:** English **Record Type:** Fulltext  
**Word Count:** 169 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...be routed through intermediaries using the WS-Routing spec. WS-Routing describes how to place **message addresses** in the **SOAP message header** and enable **SOAP messages** to travel serially to multiple destinations along a **message** path.

The WSDK lets attachments be added to **SOAP messages** following the WS-Attachments specification. Microsoft and IBM jointly submitted WS-Attachments to the Internet...

15/3,K/55 (Item 55 from file: 275)  
DIALOG(R)File 275: Gale Group Computer DB(TM)  
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02650362    **Supplier Number:** 92793152 (Use Format 7 Or 9 For FULL TEXT )  
**SOAPing Up Web Services.(Industry Trend or Event)**

MacVittie, Don  
Network Computing , 77(1)  
Oct 10 , 2002  
ISSN: 1046-4468

**Language:** English    **Record Type:** Fulltext  
**Word Count:** 2203    **Line Count:** 00183

...wsdl:

First, at what URL are these services located? This is in the "**soap:Address location**" **field** of the service definition of the **WSDL** file:

```
< soap:address location="http:// example.com/  
stockquote">
```

What **messages** does this **Web service** understand?

To find out, we examine the definition for a **message** called "GetLastTradePriceInput," which takes a ticker symbol as input. Note that "Message **Name**" is defined as a Level 2 element. It has (in this example) a single Level 3 element called "part **name**."

```
<message name="GetLastTradePriceInput">  
<part name="Ticker Symbol" element="String">  
</message>
```

And finally, "What information can I expect to get back..."

15/3,K/60 (Item 60 from file: 613)  
DIALOG(R)File 613: PR Newswire  
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00815211 20020826SFM051 (USE FORMAT 7 FOR FULLTEXT)  
**Microsoft Enables Developers to Build Advanced, More Secure**

PR Newswire  
Monday , August 26, 2002 06:01 EDT  
**Journal Code:** PR **Language:** ENGLISH **Record Type:** FULLTEXT **Document Type:** NEWSWIRE  
**Word Count:** 690

**Text:**

...XML Web service through intermediaries  
using the WS-Routing specification, which describes how to place  
**message addresses** in the **SOAP message**  
**header** and enables **SOAP messages**  
to travel serially to multiple destinations along a **message**  
path. The  
route a **SOAP message** takes to an XML **Web**  
**service** can be transparently  
delegated among Web servers.  
-- Attachments. Communication between XML **Web services**  
can contain  
attachments that are not serialized into XML. The WSDK provides the  
ability to add attachments to **SOAP messages** following  
the  
WS-Attachments specification, jointly submitted with IBM to the IETF  
in  
July 2002.

15/3,K/70 (Item 70 from file: 275)  
DIALOG(R)File 275: Gale Group Computer DB(TM)  
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02572753    **Supplier Number:** 81899400 (Use Format 7 Or 9 For FULL TEXT )  
**Messaging tools seek reliability.**

Jones, Mark; Scannell, Ed; Sullivan, Tom; LaMonica, Martin  
InfoWorld , 24 , 3 , 17  
Jan 21 , 2002  
ISSN: 0199-6649

**Language:** English    **Record Type:** Fulltext

**Word Count:** 656    **Line Count:** 00058

...Tibco joins other companies including BEA Systems, Microsoft, and IBM  
that are making moves to **address** security and reliability issues.

BEA, for example, is poised to add support for asynchronous  
**messaging** to its forthcoming application and **Web**  
**services** development and deployment framework, code-named  
Cajun, said Adam Bosworth, BEA's vice president of engineering, in an  
interview with InfoWorld...



15/3,K/73 (Item 73 from file: 613)  
DIALOG(R)File 613: PR Newswire  
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00554261 20010418SFW083 (USE FORMAT 7 FOR FULLTEXT)  
**Bea Joins Uddi Consortium to Help Drive Open Standards Platform for Web Services**

PR Newswire  
Wednesday , April 18, 2001 06:00 EDT  
**Journal Code:** PR **Language:** ENGLISH **Record Type:** FULLTEXT **Document Type:** NEWSWIRE  
**Word Count:** 646

**Text:**

...Engineering Task Force (IETF) standards such as Extensible Markup Language (XML), and HTTP and Domain **Name** System (DNS) protocols. Additionally, cross-platform programming features are **addressed** by adopting early versions of the proposed **Simple Object Access Protocol (SOAP)** known as XML Protocol **messaging** specifications found at the W3C Web site. The UDDI protocol is the building block that...

NPL FULL-TEXT – 2ND STRATEGY

4/9/5 (Item 5 from file: 275)

DIALOG(R)File 275: Gale Group Computer DB(TM)

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02700614 **Supplier Number:** 99907246 (This Is The FULL TEXT )

**Web services are coming along, says BEA exec. (Q & A).(Adam Bosworth)(Interview)(Excerpt)**

Sliwa, Carol

Computerworld , 37 , 14 , 19(1)

April 7 , 2003

**Document Type:** Interview Excerpt

ISSN: 0010-4841

**Language:** English **Record Type:** Fulltext

**Word Count:** 838 **Line Count:** 00064

**Text:**

Adam Bosworth says he spends 50% of his time with corporate users in his role as chief architect and senior vice president of advanced development at BEA Systems Inc. in San Jose. Bosworth worked at Microsoft Corp. for 11 years before joining BEA when it acquired Crossgain Corp. in July 2001. He spoke with Computerworld last week about trends in the technology industry, such as the evolution of Web services. Excerpts follow.

How much work still needs to be done in the area of Web services? There were two things that were missing from Web services. One was the model for reliable (message) delivery. We (now) get around this by using the reliable delivery mechanisms through the message bus technologies that are there, and BEA provides those as an alternative.

But if you're going to go B2B, when you can't really do that, you really need to have a standard in the Web services stack. Very recently, a standard came out. We signed, along with IBM and Microsoft, a proposal for Web services reliable messaging.

The other one you need is asynchrony. You need to be able to send a message to someone and, when they respond, be able to realize that this is a response to a message you sent out earlier. We do that today, but we do it using SOAP headers, which means the programmers on the other side have to be aware of it.

So the recently published standards for reliable delivery and asynchronous messaging are two of the most important ones, in your estimation?

**WS-Addressing** and **WS-Reliable Messaging** were pretty profound, because these have the potential to effectively make messaging a standard protocol. And once you've done that, all the messaging layers no longer really have the lock-in they currently have.

4/9/11 (Item 3 from file: 621)  
DIALOG(R)File 621: Gale Group New Prod.Annou.(R)  
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03417913 **Supplier Number:** 100113244 (THIS IS THE FULLTEXT)  
**ZapThink: Report Shows Web Services-based Process to Displace Integration Solutions;  
Implementing Service-Oriented Process Key to Meeting Business Agility Requirements.**

Business Wire , p 5337

April 16 , 2003

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 543

**Text:**

Business Editors/High-Tech Writers

WALTHAM, Mass.--(BUSINESS WIRE)--April 16, 2003

As enterprises apply Service-oriented architecture principles to business process management and automation, they will find that such "Service-Oriented Process" solutions will supplant the need for today's integration solutions, concludes a report published today by ZapThink, LLC, an analyst firm focused on XML, Web Services, and Service-oriented architectures. The report concludes that Service-oriented process tools enable business users to assemble business-oriented Web Services into business processes that are themselves exposed as Web Services.

"The success of business depends upon IT systems that are able to deliver functionality that meets business requirements in a flexible, agile way," explains Ronald Schmelzer, senior analyst at ZapThink, "Yet most corporate IT infrastructures are littered with a heterogeneous array of systems that perform isolated tasks reasonably well, but fail to fulfill core business requirements. Approaching business process from a Service-oriented perspective enables business requirements to drive IT capabilities in an agile, cost-effective manner."

ZapThink's "Service-Oriented Process" report delineates key supporting concepts including: orchestration, choreography, composition, collaboration, coordination, workflow, and transaction; and explains key specifications including: Business Process Execution Language for Web Services (BPEL4WS), Business Process Modeling Language (BPML), Business Process Modeling Notation (BPMN), Business Transaction Protocol (BTP), Conversation Support for Web Services (CS-WS), ebXML Business Process Specification Schema (BPSS), RosettaNet Partner Interface Processes (PIPs), SOAP Conversations, Web Services Choreography Interface (WSCI), Web Services Flow Language (WSFL), WS-Coordination, WS-Transaction, WS-Reliability, WS-ReliableMessaging, **WS-Addressing**, Extensible Process Definition Language (XPDL), Microsoft's XLANG, and the W3C working group on Choreography. Other key findings of the report include:

- The market for Service-Oriented Process solutions will grow from \$120 Million in 2003 to over \$8.3 Billion by 2008.
- By 2005, over 70% of Web Services implementations will be process-driven.
- The standards landscape will converge on a single choreography, orchestration, and process flow specification in the next 12-18 months.

The report profiles several vendors, including Akazi, BEA Systems (NASDAQ:BEAS), Bind Systems, BlazeSoft, Choreology, Collaxa, Commerce One, Digital Evolution, FiveSight, Fuego, Genient, HandySoft, IBM (NYSE:IBM),

IDS-Scheer, Intalio, MEGA Systems, Novell (NASDAQ:NOVL), Metastorm, Microsoft (NASDAQ:MSFT), Oak Grove Systems, Pegasystems, Polar Lake, Popkin Software, Proforma, SAP, Savvion, Sonic Software (NASDAQ: PRGS), and Versata. The report also mentions Action Technologies, Arjuna Technologies, CSC, FileNet, Fujitsu, Hitachi, Informix, Intel, NEC, Oracle, PeopleSoft, SAP, Siebel Systems, Staffware, Sterling Commerce, Sun Microsystems, Sybase, and TIBCO. An executive summary of the report and purchasing information is available at the ZapThink Web site ([www.zapthink.com](http://www.zapthink.com)).

#### About ZapThink, LLC

Founded in October 2000, ZapThink, LLC (<http://www.zapthink.com>) is an industry research and analysis firm that provides quality, high-value, focused research, analysis, and insight on emerging technologies that will have a high impact on the way business will be run in the future. ZapThink focuses on XML, Web Services, and Service-oriented architectures that provide open, standards-based, loosely-coupled systems and represent an evolutionary advancement in computing and business. ZapThink is headquartered in Waltham, Massachusetts. Its customers include Global 1000 firms and emerging businesses.

8/3,K/1 (Item 1 from file: 275)  
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02699563    **Supplier Number:** 100012187 (Use Format 7 Or 9 For FULL TEXT )  
**Grand Central connects Web services - Hosted network fills the gaps between incompatible Web technologies.(Grand Central Communications)**

Windley, Phillip J.  
InfoWorld , 25 , 15 , 30  
April 14 , 2003  
ISSN: 0199-6649

**Language:** English    **Record Type:** Fulltext  
**Word Count:** 1561    **Line Count:** 00128

...routing is specified in one of two ways: It can be put inside the SOAP **header** as part of ...an XML schema proprietary to Grand Central, or it can be put into the HTTP **header** as part of the POST. The Grand Central developer site provides ample documentation, including code...primary features of the Grand Central network is message routing. Don't look for GXA **WS-Routing**-style routing just yet; that specification is still in

8/3,K/2 (Item 2 from file: 275)  
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02648885    **Supplier Number:** 92232830 (Use Format 7 Or 9 For FULL TEXT )  
**IM tools expand presence - Lotus, Microsoft, AOL prepare instant messaging for enterprise.**

Moore, Cathleen  
InfoWorld , 24 , 39 , 15  
Sept 30 , 2002  
ISSN: 0199-6649

**Language:** English    **Record Type:** Fulltext

**Word Count:** 1569    **Line Count:** 00131

...firewall.

Industry support is gathering behind standards such as SIP (Session Initiation Protocol) and the **related** protocol SIMPLE (SIP for Instant Messaging and Presence Leveraging Extensions).

IBM leverages SIP in Sametime...available in a location- transparent way.

Jabber also anticipates the XML routing features (for example, **WS - Routing** and WS-Referral), which are now on the Web services drawing board. "The presence-**related** aspects of Jabber can make routing and rerouting intelligent," says Jabber Council's Adams.

This...

8/3,K/3 (Item 3 from file: 275)  
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02641001    **Supplier Number:** 91230062 (Use Format 7 Or 9 For FULL TEXT )  
**Toolkits tackle standards - Web services kits advance toward easier integration, interoperability.**

April, Carolyn; Harreld, Heather; Krill, Paul  
InfoWorld , 24 , 36 , 34  
Sept 9 , 2002  
ISSN: 0199-6649

**Language:** English    **Record Type:** Fulltext  
**Word Count:** 1704    **Line Count:** 00140

...26, put some flesh on the bones of a set of specifications including WS-Security, **WS-Routing**, WS-Referral, and WS-Attachments/DIME (Direct Internet Message Encapsulation). On the same day, IBM to sign and/or encrypt SOAP messages. In practice that means adding XML Signature **headers** and altering parts of the bodies of the messages using XML Encryption.

These two styles...

...MIME-oriented SOAP with Attachments -- it breaks new ground with support for (and demonstration of) **WS- Routing**/WS-Referral. The SOAP router, which dedicates the ASP.Net interface for processing HTTP requests with custom handlers, acts on the To and Via elements of the **WS-Routing** specification. In the demo included with the toolkit, a SOAP message bounces from one instance...

...is not so straightforward. In our preliminary test of the WSDK, only the non-PKI-**related** examples ran without a hitch. Everything **related** to keys and certificates was, as it always is, a nightmare. This is no **fault** of the WSDK, whose APIs do an elegant job of encapsulating WS-Security-style signing...

8/3,K/4 (Item 4 from file: 275)  
DIALOG(R)File 275: Gale Group Computer DB(TM)  
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02639979    **Supplier Number:** 91033559 (Use Format 7 Or 9 For FULL TEXT )  
**Microsoft Previews Kit for Building Web Services.**

eWeek , NA  
Sept 2 , 2002  
ISSN: 1530-6283

**Language:** English    **Record Type:** Fulltext

**Word Count:** 468    **Line Count:** 00042

...advanced Web services applications using the latest Web services specifications, such as Web Services-Security, **WS-Routing** and WS-Attachments.

    WS-Security, jointly introduced by Microsoft, of Redmond, Wash., IBM and VeriSign...

...includes routing, which is the ability to transfer an XML Web service through intermediaries using **WS-Routing**, which describes how to place message addresses in the SOAP message **header** and enables SOAP messages to travel to multiple destinations.

    Ron Schmelzer, an analyst with ZapThink...



8/3,K/7 (Item 7 from file: 275)  
DIALOG(R)File 275: Gale Group Computer DB(TM)  
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02614220    **Supplier Number:** 87374170 (Use Format 7 Or 9 For FULL TEXT )  
**Connecting with Web services - There's more than one way to perform loose coupling, and they're evolving.**

Udell, Jon  
InfoWorld , 24 , 23 , 42  
June 10 , 2002  
ISSN: 0199-6649

**Language:** English    **Record Type:** Fulltext  
**Word Count:** 1341    **Line Count:** 00111

...global scale. SOAP routing is described in two of Microsoft's Global XML Architecture specifications. **WS-Routing** defines how to specify the route a SOAP message takes through a chain of intermediaries...the approaches BEA has taken in WebLogic Workshop are important steps in the right direction.

**Related Articles:**App dev and Web services package  
THE BOTTOM LINE  
Loose coupling  
Executive Summary: The...

8/3,K/12 (Item 5 from file: 621)  
DIALOG(R)File 621: Gale Group New Prod.Annou.(R)  
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03023984 **Supplier Number:** 79369457 (USE FORMAT 7 FOR FULLTEXT)  
**Microsoft Previews Global XML Web Services Architecture.**

PR Newswire , p 1786

Oct 23 , 2001

**Language:** English **Record Type:** Fulltext

**Document Type:** Newswire ; Trade

**Word Count:** 733

-

...Web services to more complex and sophisticated tasks. The four specifications -- WS-Security, WS- License, **WS-Routing** and WS-Referral -- build on XML Web services technologies such as SOAP, extending them for...

...their associated trust semantics can be securely associated with SOAP messages.

The routing specifications are **WS-Routing** (formerly SOAP-RP), which describes how to place message addresses in the SOAP message **header** and enables SOAP messages to travel serially to multiple destinations along a message path, and...

8/3,K/17 (Item 2 from file: 15)  
DIALOG(R)File 15: ABI/Inform(R)  
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02424305 168877611  
**Dueling toolkits: Microsoft vs. IBM**

Udell, Jon  
InfoWorld v24n36 pp: 37  
Sep 9, 2002  
**ISSN:** 0199-6649 **Journal Code:** IFW  
**Word Count:** 462

**Text:**

...26, put some flesh on the bones of a set of specifications including WS-Security, **WS-Routing**, WS-- Referral, and WS-Attachments/DIME (Direct Internet Message Encapsulation). On the same day, IBM...

...Security to sign and/or encrypt SOAP messages. In practice that means adding XML Signature **headers** and altering parts of the bodies of the messages using XML Encryption.

Although Microsoft's...

...MIME-- oriented SOAP with Attachments - it breaks new ground with support for (and demonstration of) **WS-Routing**/WS-Referral. The SOAP router, which dedicates the ASP.Net interface for processing HTTP requests with custom handlers, acts on the To and Via elements of the **WS-Routing** specification. In the demo included with the toolkit, a SOAP message bounces from one instance...

...is not so straightforward. In our preliminary test of the WSDK, only the non-PKI-**related** examples ran without a hitch. Everything **related** to keys and certificates was, as it always is, a nightmare. This is no **fault** of the WSDK, whose APIs do an elegant job of encapsulating WS-Security-style signing...

8/9/19 (Item 4 from file: 15)  
DIALOG(R)File 15: ABI/Inform(R)  
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02296905 101606525  
**Top web service worry: Security**

Fontana, John  
Network World v19n3 pp: 1, 10  
Jan 21, 2002  
**ISSN:** 0887-7661 **Journal Code:** NWW  
**Document Type:** Periodical; News **Language:** English **Record Type:** Fulltext **Length:** 2 Pages  
**Special Feature:** Graph  
**Word Count:** 843

....

When corporations execute business-to-business commerce, which often involves machine-to-- machine communication, certain behaviors are required. There must be assurances as to the identity of the systems, that messages are delivered once and only once, and that all business processes are completed.

Web services specifications that begin to solve those problems are being developed now, including the Extensible Access Control Markup Language (XACML), Security Assertions Markup Language (SAML), XML Key Management (XKMS), XML Encryption, Web Services Flow Language, XML Digital Signature, Business Transaction Protocol and extensions to the Simple Object Access Protocol (SOAP).

Meanwhile, IBM has proposed HTTP-R for reliable transport of SOAP messages. And Microsoft is working on a Global XML Architecture, which includes proposed standards called WS-Security and **WS-Routing**. The Organization for the Advancement of Structured Information Standards is developing ebXML, which includes models for security and standardizing electronic business processes.

Others are proposing extensions to SOAP which can carry directives in the **header** fields of its messages.

"By midyear you will see proposals for the next generation of SOAP that include a standard model for reliability and security' says Adam Bosworth, vice president of engineering for BEA Systems, which develops the WebLogic application server. Bosworth says BEA is working with several major vendors, which he declined to name, on a "correlation" extension to SOAP that uses unique IDs in SOAP **headers** to ensure one-time message delivery.

But doubts remain.

"There is not an acceptable complete security model for Web services," says Eduardo Fernandez, a professor in the Department of Computer Science and Engineering at Florida Atlantic University. "Right now, you have all these protocols for individual things, but how does it all come together."

Fernandez says XACML and SAML don't follow classic maps for security and might eventually produce errors, and XML Encryption and XKMS overlap in many places.

In the interim, a handful of vendors, including IBM, Microsoft, Kenamea, Sonic, Iona, Tibco, Flamenco Networks and Grand Central, are using a collection of standard and proprietary technology in middleware software or services that use security, reliable delivery of messages and transactional integrity of business processes exposed using Web services. However, most of that technology is still used between corporations that have already established a trusted relationship.

Get more information online.

DocFinder: 7747

[www.nwfusion.com](http://www.nwfusion.com)

Web services insecurity

\* The Home Depot and the Winter Olympics are making generous use of XML and Web service technology.

Pages 12 and 25.

**THIS IS THE FULL-TEXT.**

Copyright Network World Inc. Jan 21, 2002

Web:

W3C Note on Web Services Description Language (March 2001)

SOAP header fault:

[http://www.w3.org/TR/wsdl#\\_soap:header](http://www.w3.org/TR/wsdl#_soap:header)

Message Specifications Index page (Microsoft)

(indicates that WS-Addressing replaces WS-Routing standard)

<http://msdn.microsoft.com/en-us/library/ms951268.aspx>

IP.com

(no relevant results)